



WR-35

07-Jun-93

47- 81-00955

REVISED

RECEIVED Office of Oil & Gas WV Division of

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Personmental Potection

POCAHONTAS CO.

Operator Well No.: 57-BW

Elevation: 2,066.00 Quadrangle: MCGRAWS LOCATION:

> SLAB FORK County: RALEIGH

Feet South of 37 Deg. 42Min. 30 Sec. 1750 Latitude: Longitude 2150 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: PEAKE OPERATING COMPANY

P.O. BOX 8

RAVENSWOOD, WV 26164-0008

Agent: THOMAS S. LIBERATORE

Inspector: RODNEY DILLON

Permit Issued: 06/07/93 Well work Commenced: 09/14/93 Well work Completed: 09/21/93

Verbal Plugging

Permission granted on:

Rotary X Cable
Total Depth (feet)
Fresh water depths (ft)

Salt water depths (ft) 965

Is coal being mined in area (Y/N)?N Coal Depths (ft): none recognized

Casing	Used in	Left	Cement Fill Up	
Tubing	Drilling	in Well		
Size		_		
13 3/8"	28'	28 '	-	
9 5/8"	274'	274	90 sks Class A	
7"	1564'	1564	240 sks Class A	
4 1/2"	2403'	2403'	95 sks Pozmix	
			: <u>-</u> ,	

OPEN FLOW DATA

Producing formation Middle Maxton Sand Pay zone depth (ft) 2237-68 Gas: Initial open flow -- MCF/d Oil: Initial open flow Final open flow 500 MCF/d Final open flow Bb1/c Final open flow _ Bb1/c Time of open flow between initial and final tests Hour: 225 psig (surface pressure) after Static rock Pressure

Ravencliff Pay zone depth (ft)1677-1707

-- MCF/d Oil: Initial open flow 0 Bbl/c

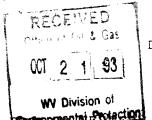
158 MCF/d Final open flow Second producing formation Gas: Initial open flow Final open flow Time of open flow between initial and final tests Hour: Static rock Pressure 160 psig (surface pressure) after

ACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS NOTE: ON BACK OF DETAILS OF PERFORATE INTERVALS, FRACTURING LOG WHICH OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

> 2 Koma For: PEAKE OPERATING COMPANY

Thomas S. Liberatore Date: 10/19/93

Commonstration Comm	Form W			1)	Date: May 6, 1993	
State - County - Permit Permit 2	(03/0/		VI STATE OF THE ST		Operator's well number	
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: (a) Name Western Pocahontas Properties Address P.O. Box 2527 (b) Name ATIN: David Morrison Address Address P.O. Box 1517 (c) Name ATIN: David Morrison Address P.O. Box 151 Address P.O. Box 151 Fradley, WW 25818 Telephone (304) - 877-2912 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR Included is the Information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Cod I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties, by: Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and amfamiliar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the information penalties for submitting false information, including the possibility of those individuals immediately responsible for obtaining the information penalties for submitting false information, including the possibility of the And imprisonment. Well Official Properties Address P.O. Box B. Ravenswood, WW 26164 Telephone (304) 273-5371 Address P.O. Box B. A. Ravenswood WW 26164 The penalty well and the properties and penalty penalty and penalty publication and penalty		•	Environment 4 93	3)		55
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DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: (a) Name Western Pocahontas Properties Address P.O. Box 2827 Huntington, WV 25727 (b) Name ATTN: David Morrison Address F.O. Box 2827 Final Properties Address F.O. Box 2827 Final Properties Address F.O. Box 2827 Address F.O. Box 2827						
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Huntington, WV 25727						
(b) Name Address (c) Coal Lessee with Declaration Name/Drummond Co., Inc. 2) Adventure Responsible for obtaining the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Cod Name Name Name Name Name Name Name Name	P				Address	
Name Western Poccahontas Properties	-7				(h) Coal Owner(s) with Declarat	ion
Address Rodney Dillon Address Rodney Dillon Address Rodney Dillon Bradley, WV 25818 Telephone (304) - 877-2912 Address Rodney Dillon Address Rodney Dillon Bradley, WV 25818 Telephone (304) - 877-2912 Address Rodney Dillon Address Rodney Dillon Address Rodney Dillon Ammel)Drummond Co., Inc. 2)Adventure Res. Address Rodney Dillon Ro		_				1011
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Address P.O. Box 131 Bradley, WV 25818 Address P.O. Box 1549 41 Eagles Rd. Telephone (304) - 877-2912 Jasper, AL 35502 Becklev, WV ATTN: Geo. Barber ATTN: Randy Har TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Cod I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties, by: Personal Service (Affidavit attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and amfamiliar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of this and imprisonment. Well Operator By: Months P.O. Box 8 Ravenswood, WV 26164 Telephone (304) 273-5371 Subscribed and sworn before me this 5 day of May 1993	_				Address	
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My commission expires Oct 28. 1993	to the famil attack responsis truitinform	X Cert Publ I have reseterms as I certify iar with hments, and in a court is a court in	ified Mail (Poication (Notice	stmarked pose of Publication and Chapter of law the notes of my inquision my inquis	cation attached) 22B and 38 CSR 11-18, and I agration is a sued under this application at I have personally examined and i on this application form and aliny of those individuals immediation, I believe that the information, I believe that the information of fine and imprisonment. 22B and 38 CSR 11-18, and I agration is application application application form and aliny of those individuals immediate in a submitting fall of fine and imprisonment. 23B and 38 CSR 11-18, and I agration is application application form and I agration application form and aliny of fine and imprisonment. 23B and 38 CSR 11-18, and I agration is application for a submitting fall of fine and imprisonment. 25B and 38 CSR 11-18, and I agration is application for a submitting fall of fine and imprisonment. 25B and 38 CSR 11-18, and I agration is application for a submitting fall of fine and imprisonment. 25B and 38 CSR 11-18, and I agration is application for a submitted in a	ee am lely on se
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State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm POCAHONTAS CO.

Operator Well No.: 57-BW

County: RALEIGH

LOCATION:

Elevation: 2,066.00 Quadrangle: MCGRAWS

District: SLAB FORK

Feet South of 37 Deg. 42Min. 30 Sec. Feet West of 81 Deg. 22 Min. 30 Sec. Latitude: 1750 Longitude 2150

Company: PEAKE OPERATING COMPANY

P.O. BOX 8

RAVENSWOOD, WV 26164-0008

Agent: THOMAS S. LIBERATORE

Inspector: RODNEY DILLON

Permit Issued: 06/07/93
Well work Commenced: 09/14/93
Well work Completed: 09/21/93

Verbal Plugging

Permission granted on: Rotary Cable Rig
Total Depth (feet) 271 <u>271</u>3 Fresh water depths (ft) 48

Salt water depths (ft) ___

Is coal being mined in area (Y/N)? N Coal Depths (ft): none recognized

Casing	Used in	Left	Cement
Tubing	Drilling	in Well	Fill Up Cu. Ft.
Size			
13 3/8"	28'	28'	
9 5/8"	274'	274'	90 sks Class A
7"	1564'	1564'	240 sks Class A
4 1/2"	2403'	2403'	95 sks Pozmix

OPEN FLOW DATA

Producing formation Middle Maxton Sand Pay zone depth (ft) 2237-68

Gas: Initial open flow -- MCF/d Oil: Initial open flow 0 Bbl/c
Final open flow 500 MCF/d Final open flow 0 Bbl/c
Time of open flow between initial and final tests 28 Hour: 225 psig (surface pressure) after Static rock Pressure

Second producing formation Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/

Final open flow MCF/d Final open flow Bbl/

Time of open flow between initial and final tests Hours Static rock Pressure ____psig (surface pressure) after

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELLOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS DETAILS OF PERFORATE INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

> Homas For: FEAKE OPERATING COMPANY

resect_ P ...

Thomas S. Liberatore Bv: Date: 10/19/93

PERMIT #: 47-081-0955
(Reverse)

CO. WELL #: #57-BW
ELEVATION: 2066 GL, 2076 KB FORM WR-35 (Reverse)

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

09/27/93: PERFORATED THE MIDDLE MAXTON FROM 2237-2268 USING

61 HOLES.

09/28/93: FOAM-FRACTURED THE MIDDLE MAXTON SAND WITH

63,000 LBS. OF SAND, 473,000 SCF OF NITROGEN, AND

316 BBL OF WATER.

WELL LOG (all depths taken from KB)

ROCK TYPE OR FORMATION	TOP	воттом	REMARKS
SAND	0	51	WTR.@ 48'
SHALE	51	211	
SAND	211	318	
SHALE	318	469	
SAND	469	496	
SHALE	496	594	
SAND	594	904	
SHALE	904	946	
SAND	946	1026	WTR.@ 965'
SHALE & SAND	1026	1210	
SAND	1210	1272	
SHALE	1272	1470	
SAND	1470	1526	
SHALE	1526	1666	
RAVENCLIFF SAND	1666	1724	
SHALE	1724	1726	
AVIS LIME	1726	1770	
SHALE	1770	2236	
MIDDLE MAXTON SAND	2236	2270	S/GAS
SHALE	2270	2506	
LOWER MAXTON	2506	2616	S/GAS: 2530'
LITTLE LIME (REYNOLDS)	2616	2684	
SHALE (PENCIL CAVE)	2684	2713	
TOTAL DEPTH (LOGGERS)	2713		

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FORM WW-2B WY 2 1 93

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loved 06/07/93

Permitting STATE OF WEST VIRGINIA CXPURE OF OF 7

		WILL WC	KK PEKILL	the contract	•	
1) Well Ope	rator:	Peake O	perating C	ompany (3	7100) (3)	466
2) Operator	's Well N	Number:	#57 - BW		3) El	evation: 206
4) Well typ	e: (a) (0i1_/	or ' Gas	<u>X</u> /		
	(b) 1	If Gas:		X/ Undergr	ound Storage Shallo	
) Proposed	Target E	Formation	n(s):Bi	g Lime		
6) Proposed	Total De	epth:	2650	_ feet		
7) Approxim	ate fresh	n water s	trata dept	hs:2	10	
8) Approxim	ate salt	water de	epths: 10	66'		
9) Approxim	ate coal	seam dep	ths:Sewell	at approx.	350 ; Beckl	ey at 680
10) Does lan	d contair	n coal se	ams tribut	ary to acti	ve mine? Yo	es/ No_X
11) Proposed	Well Wor	ck: To d	rill a new	well; stim	ulate by fra	cturing
12)		CASIN	IG AND TUBI	NG PROGRAM		
TYPE	SI	PECIFICAT		FOOTAGE IN	ITERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up
Conductor	12 3/4"		42#	30'	30'	385R18114
Fresh Water	9 5/8"	J-55	36#	250'	250	cement to surface
Coal	e w sedelje					3805RJA-/ha
Intermediate	7"	J-55	17#	1500'	1500,	220 sx
Production	4 1/2"	J-55	10.5#	2650'	2650'	100 sx
Tubing					(3865RP611:
Liners						
PACKERS : Kin					<u>}</u>	
Siz // Dep	ths set					
317/4	F	or Diviso	on of Oil a	nd Gas Use	Only	1.
Fee(s) p	pajd:	yell v	Vork Permit	Rec1	amation Fun	d WPCP
+H	A	(H)	- (H	sond Olm	ONT MILLS	Agen

Set Bridge Plug at 1810'. Perforated 4.5" casing with 4 holes at 1754'. Squeezed 8 bbls Class A cement behind 4.5" csg. 12/15/93:

Perforated Ravencliff from 1677'-1707' using 40 holes.

12/17/93: Foam-Frac'd Ravencliff using 500 gal. acid, 46,300# sand, 283 bbl

water, and 460,000 SCF of Nitrogen.

FORM WR-35 (Reverse)

PERMIT #: 47-081-0955

CO. WELL #: #57-BW

2066 GL, 2076 KB ELEVATION:

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L. PAR.